

ORION 15A

SMART DISPLAY

All-in-One Touchscreen Computer
Rugged, Compact, Portable



zmicro.com/All In One/Orion 15A

Portable and Compact

Combine a 1080p resolution PCAP touchscreen display and an Intel® Core™ SBC and you have a compact and portable all-in-one solution. The smart display gives you the ability to reduce weight and leverage the latest display and computing technology in a compact and rugged package.

Rugged and Reliable

The Orion Smart Display is designed and tested to meet full MIL-SPEC requirements, creating a reliable and rugged all-in-one display. Tested and passed at +65° C for 120 minutes at operating temperature, the Orion can effectively dissipate heat in a transit case without shutting down. Field reliability is something that you can count on, making interruptions due to electronic failure a headache of the past.

Harness the Power of Edge Computing in a Compact Chassis

Using an embedded computer, ZMicro has integrated the ability to capture HD-SDI video, with the option of storing data in a removable SD card. The Orion 15A combines video capture and compute capability in a single lightweight, deployable package.

HIGHLIGHTS

- 15.6" low powered LED LCD
- 1920 x1080 (1080p) resolution
- Lightweight machined aluminum chassis
- Ultra-Bright display with optical bonding
- Supports 2x HD-SDI video input
- PCAP Touchscreen enabled with bare or gloved hand
- 12-36V DC power input with MIL-DTL-5015 power connector
- Passed thermal testing at +70° C for 30 minutes at storage and +65° C for 120 minutes at operating
- Easily accessible and replaceable CMOS battery

Ideal for Ground Applications

FOR MORE INFO

Contact us at sales@zmicro.com
or call 858.831.7000.

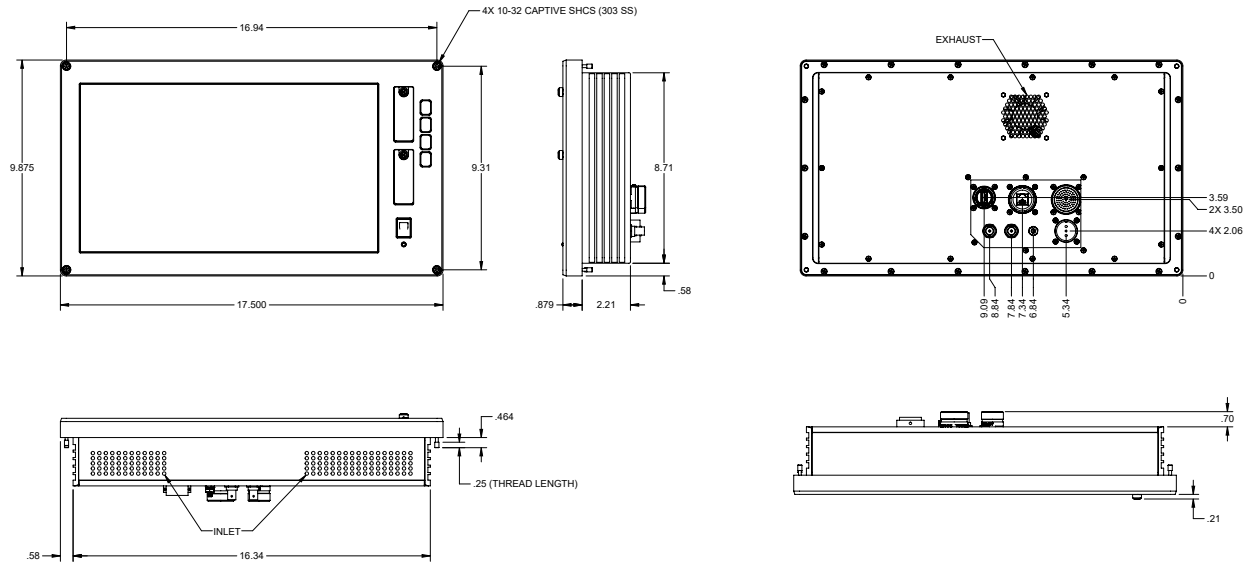
ORION 15A

ALL IN ONE DISPLAY

To see all of our display options, visit zmicro.com/displays.



MECHANICAL OUTLINE



TECHNICAL SPECIFICATIONS

SIZE & WEIGHT

Dimensions 9.31" H x 17.50" W x 3.67" D
Weight 12.2 lbs.

POWER

Power Supply 12-36V DC, 14.7-4.9A, 176W Max
Power Consumption 70 W @ 100% brightness

SPECIFICS

Panel Size 15.6" active viewing area
Native Resolution 1920 x 1080
Backlight LED
Brightness 1000 cd/m² (native brightness: may vary due to optical stack bonding)
Viewing Angle Horizontal +/- 89°; Vertical +/- 89°
Contrast Ratio 1000:1
Aspect Ratio 16:9
Color Palette 16.7 Million
Controls User accessible via Control Panel and API over USB
Panel Options Optically bonded PCAP touchscreen usable with bare and gloved hand
Connectors 4x USB 2.0 via MIL connector, 1x USB 3.1, USB 3.2, 1x RS-232 serial port, 1x USB for Maintenance/API Interface, 2x BNCs connectors for HD-SDI, 1x USB 3.1 Type A in MIL Shell

ENVIRONMENTAL

Mounting Corner mount with captive screws
Operating Temperature -20° to +65° C for 120 minutes
Storage Temperature -30° to +70° C for 30 minutes
Humidity MIL-STD-810G, Method 507.5, Procedure II
Operating Altitude Up to 10,000 ft. MIL-STD-810G, Method 500.5, Procedure II
Non-operating Altitude Up to 40,000 ft. MIL-STD-810G, Method 500.5, Procedure I
Vibration MIL-STD-810G, Method 514.6, Procedure I
Shock & Crash Safety MIL-STD-810G, 30gs, 11ms, saw-tooth, Procedure I: Functional Shock
EMI / EMC MIL-STD-461G: Radiated: RE101 (Army Limits), RE102 (Aircraft > 25m), RS101, RS103 (up to 60V/m). Conducted: CE101 (Curve #2), CE102, CS101, CS114 (Aircraft 10kHz-200MHz), CS115, CS116, CS118

OTHER

Quality AS9100:2016 and IPC/ISO 9001:2015 and applicable sections of the MIL-HDBK-454

* ZMicro's products are designed to meet or exceed environmental specifications. Test results are configuration dependent. For specific test results, please contact your sales representative.

ZMicro, Inc. is an AS9100:2016 & ISO 9001:2015 certified company. Product information and technical data provided are typical of standard configurations of the described products. Measured results may vary slightly between units. This information is subject to change without notice. For more information, or the latest version of this product sheet, please visit our website www.zmicro.com.